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Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

<u>Listing of Claims</u>:

1. (Previously Presented) A photovoltaic cell, comprising:

a first electrode;

a mesh electrode; and

a photoactive layer between the first and mesh electrodes, the photoactive layer

comprising:

an electron acceptor material comprising a fullerene; and

an electron donor material comprising a polymer,

wherein the mesh electrode is in contact with the photoactive layer.

2. (Original) The photovoltaic cell of claim 1, wherein the mesh electrode is a cathode.

- 3. (Original) The photovoltaic cell of claim 1, wherein the mesh electrode is an anode.
- 4. (Previously Presented) The photovoltaic cell of claim 1, wherein the mesh electrode comprises an electrically conductive material.
- 5. (Original) The photovoltaic cell of claim 4, wherein the electrically conductive material is selected from the group consisting of metals, alloys, polymers and combinations thereof.

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6. (Original) The photovoltaic cell of claim 1, wherein the mesh electrode comprises wires.

- 7. (Original) The photovoltaic cell of claim 6, wherein the wires comprise an electrically conductive material.
- 8. (Original) The photovoltaic cell of claim 7, wherein the electrically conductive material is selected from the group consisting of metals, alloys, polymers and combinations thereof.
- 9. (Original) The photovoltaic cell of claim 6, wherein the wires comprise a coating including an electrically conductive material.
- 10. (Original) The photovoltaic cell of claim 9, wherein the electrically conductive material is selected from the group consisting of metals, alloys, polymers and combinations thereof.
- 11. (Original) The photovoltaic cell of claim 1, wherein the mesh electrode comprises an expanded mesh.
- 12. (Original) The photovoltaic cell of claim 1, wherein the mesh electrode comprises a woven mesh.
 - 13. (Cancelled).
- 14. (Original) The photovoltaic cell of claim 1, wherein the electron acceptor material comprises a substituted fullerene.

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15. (Previously Presented) The photovoltaic cell of claim 1, wherein the polymer comprises a material selected from the group consisting of polythiophenes, polyphenylenes, polyphenylvinylenes, polythienylvinylenes and polyisothianaphthalenes.

- 16. (Previously Presented) The photovoltaic cell of claim 1, wherein the polymer comprises poly(3-hexylthiophene).
- 17. (Previously Presented) The photovoltaic cell of claim 1, further comprising a hole blocking layer between the photoactive layer and the first electrode.
- 18. (Original) The photovoltaic cell of claim 17, wherein the hole blocking layer comprises a material selected from the group consisting of LiF, metal oxides and combinations thereof.

19-22. (Cancelled).

- 23. (Previously Presented) The photovoltaic cell of claim 1, further comprising a hole carrier layer between the photoactive layer and the first electrode.
- 24. (Original) The photovoltaic cell of claim 23, wherein the hole carrier layer comprises a material selected from the group consisting of polythiophenes, polyanilines, polyvinylcarbazoles, polyphenylenes, polyphenylvinylenes, polysilanes, polythienylenevinylenes, polyisothianaphthanenes and combinations thereof.
- 25. (Original) The photovoltaic cell of claim 1, wherein the first electrode comprises a mesh electrode.

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26. (Previously Presented) A photovoltaic cell, comprising:

a first electrode;

a mesh electrode;

a photoactive layer between the first and mesh electrodes, the photoactive layer comprising:

an electron acceptor material comprising a fullerene; and an electron donor material comprising a polymer;

a hole blocking layer between the first electrode and the photoactive layer; and a hole carrier layer between the mesh electrode and the photoactive layer, wherein the mesh electrode is in contact with the hole carrier layer.

- 27. (Original) The photovoltaic cell of claim 26, wherein the mesh comprises an electrically conductive material.
- 28. (Original) The photovoltaic cell of claim 27, wherein the electrically conductive material is selected from the group consisting of metals, alloys, polymers and combinations thereof.
- 29. (Original) The photovoltaic cell of claim 26, wherein the hole carrier layer comprises a material selected from the group consisting of polythiophenes, polyanilines, polyvinylcarbazoles, polyphenylenes, polyphenylvinylenes, polysilanes, polythienylenevinylenes, polyisothianaphthanenes and combinations thereof.
- 30. (Original) The photovoltaic cell of claim 29, wherein the hole blocking layer comprises a material selected from the group consisting of LiF, metal oxides and combinations thereof.
- 31. (Original) The photovoltaic cell of claim 26, wherein the hole blocking layer comprises a material selected from the group consisting of LiF, metal oxides and combinations thereof.

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32. (Original) The photovoltaic cell of claim 26, wherein the mesh electrode comprises wires.

- 33. (Original) The photovoltaic cell of claim 32, wherein the wires comprise an electrically conductive material.
- 34. (Original) The photovoltaic cell of claim 33, wherein the electrically conductive material is selected from the group consisting of metals, alloys, polymers and combinations thereof.
- 35. (Original) The photovoltaic cell of claim 32, wherein the wires comprise a coating including an electrically conductive material.
- 36. (Original) The photovoltaic cell of claim 35, wherein the electrically conductive material is selected from the group consisting of metals, alloys, polymers and combinations thereof.
- 37. (Original) The photovoltaic cell of claim 26, wherein the mesh electrode comprises an expanded mesh.
- 38. (Original) The photovoltaic cell of claim 26, wherein the mesh electrode comprises a woven mesh.
- 39. (Original) The photovoltaic cell of claim 26, wherein the first electrode comprises a mesh electrode.
- 40. (Original) The photovoltaic cell of claim 26, further comprising a substrate supporting the mesh electrode.

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41. (Original) The photovoltaic cell of claim 40, further comprising an adhesive material between the substrate and the hole carrier layer.

- 42. (Original) The photovoltaic cell of claim 40, wherein the hole carrier layer is in contact with the substrate.
- 43. (Original) A photovoltaic system comprising a plurality of photovoltaic cells of claim 1, at least some of the plurality of photovoltaic cells being electrically connected.
- 44. (Original) The photovoltaic system of claim 43, wherein all of the plurality of photovoltaic cells are electrically connected.
- 45. (Original) The photovoltaic system of claim 43, wherein at least some of the electrically connected photovoltaic cells are electrically connected in parallel.
- 46. (Original) The photovoltaic system of claim 43, wherein at least some of the electrically connected photovoltaic cells are electrically connected in series.
- 47. (Currently Amended) The photovoltaic system of claim 43, wherein the photovoltaic system is wherein at least some of the electrically connected photovoltaic cells are electrically connected in to a load.
- 48. (Currently Amended) A photovoltaic system comprising a plurality of photovoltaic cells of claim 26, at least some of the plurality of photovoltaic cells being wherein at least some of the electrically connected photovoltaic cells are electrically connected.
- 49. (Original) The photovoltaic system of claim 48, wherein all of the plurality of photovoltaic cells are electrically connected.

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50. (Original) The photovoltaic system of claim 48, wherein at least some of the electrically connected photovoltaic cells are electrically connected in parallel.

- 51. (Original) The photovoltaic system of claim 48, wherein at least some of the electrically connected photovoltaic cells are electrically connected in series.
- 52. (Currently Amended) The photovoltaic system of claim 48, wherein the photovoltaic system is wherein at least some of the electrically connected photovoltaic cells are electrically connected in parallel to a load.
 - 53. (Currently Amended) A photovoltaic cell, comprising:
 - a first electrode;
 - a mesh electrode;
- a photoactive layer between the first and mesh electrodes, the photoactive layer comprising:

an electron acceptor material comprising a fullerene; and an electron donor material comprising a polymer;

- a hole carrier layer between the first electrode and the photoactive layer; and a hole blocking layer between the mesh electrode and the photoactive layer, wherein the mesh electrode is in contact with the hole blocking layer layer.
- 54. (Previously Presented) The photovoltaic cell of claim 53, wherein the mesh comprises an electrically conductive material.
- 55. (Previously Presented) The photovoltaic cell of claim 54, wherein the electrically conductive material is selected from the group consisting of metals, alloys, polymers and combinations thereof.

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56. (Previously Presented) The photovoltaic cell of claim 53, wherein the hole carrier layer comprises a material selected from the group consisting of polythiophenes, polyanilines, polyvinylcarbazoles, polyphenylenes, polyphenylvinylenes, polysilanes, polythienylenevinylenes, polyisothianaphthanenes and combinations thereof.

- 57. (Previously Presented) The photovoltaic cell of claim 56, wherein the hole blocking layer comprises a material selected from the group consisting of LiF, metal oxides and combinations thereof.
- 58. (Previously Presented) The photovoltaic cell of claim 53, wherein the hole blocking layer comprises a material selected from the group consisting of LiF, metal oxides and combinations thereof.
- 59. (Previously Presented) The photovoltaic cell of claim 53, wherein the mesh electrode comprises wires.
- 60. (Previously Presented) The photovoltaic cell of claim 59, wherein the wires comprise an electrically conductive material.
- 61. (Previously Presented) The photovoltaic cell of claim 60, wherein the electrically conductive material is selected from the group consisting of metals, alloys, polymers and combinations thereof.
- 62. (Previously Presented) The photovoltaic cell of claim 59, wherein the wires comprise a coating including an electrically conductive material.
- 63. (Previously Presented) The photovoltaic cell of claim 62, wherein the electrically conductive material is selected from the group consisting of metals, alloys, polymers and combinations thereof.

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64. (Previously Presented) The photovoltaic cell of claim 53, wherein the mesh electrode comprises an expanded mesh.

- 65. (Previously Presented) The photovoltaic cell of claim 53, wherein the mesh electrode comprises a woven mesh.
- 66. (Previously Presented) The photovoltaic cell of claim 53, wherein the first electrode comprises a mesh electrode.
- 67. (Previously Presented) The photovoltaic cell of claim 53, further comprising a substrate supporting the mesh electrode.
- 68. (Currently Amended) The photovoltaic cell of claim 67, further comprising an adhesive material between the substrate and the hole carrier blocking layer.
- 69. (Currently Amended) The photovoltaic cell of claim 67, wherein the hole carrier blocking layer is in contact with the substrate.
- 70. (Currently Amended) A photovoltaic system comprising a plurality of photovoltaic cells of claim 53, at least some of the plurality of photovoltaic cells being wherein at least some of the electrically connected photovoltaic cells are electrically connected.
- 71. (Previously Presented) The photovoltaic system of claim 70, wherein all of the plurality of photovoltaic cells are electrically connected.
- 72. (Previously Presented) The photovoltaic system of claim 70, wherein at least some of the electrically connected photovoltaic cells are electrically connected in parallel.
- 73. (Previously Presented) The photovoltaic system of claim 70, wherein at least some of the electrically connected photovoltaic cells are electrically connected in series.

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74. (Currently Amended) The photovoltaic system of claim 70, wherein the photovoltaic system is wherein at least some of the electrically connected photovoltaic cells are electrically connected in parallel to a load.

75. (Withdrawn) A method of preparing a photovoltaic cell, comprising: supporting a mesh with a substrate, the mesh and the substrate forming at least a portion of a first electrode; and

supporting a photoactive layer with the mesh to provide a portion of the photovoltaic cell.

76. (Withdrawn) A method of preparing a module, comprising:

supporting a mesh with an advancing substrate, the mesh and the substrate forming at least a portion of each of a plurality of first electrodes; and

supporting a photoactive layer with the mesh to provide a portion of the module.

77. (Withdrawn) A method of preparing a photovoltaic cell, comprising:

supporting a mesh with a substrate, the mesh and the substrate forming at least a portion of a first electrode; and

supporting a photoactive layer with the mesh, the photoactive layer comprising an electron acceptor material and an electron donor material to provide a portion of the photovoltaic cell.

78. (Withdrawn) A method of preparing a module, comprising:

supporting a mesh with an advancing substrate, the mesh and the substrate forming at least a portion of each of a plurality of first electrodes; and

supporting a photoactive layer with the mesh, the photoactive layer comprising an electron acceptor material and an electron donor material to provide a portion of the module.

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79. (Withdrawn) An article, comprising:

a first electrode;

a mesh electrode; and

an active layer between the first and mesh electrodes, the active layer comprising copper indium and gallium;

wherein the article is configured as a photovoltaic cell.

80. (Withdrawn) An article, comprising:

a first electrode;

a mesh electrode; and

an active layer between the first and mesh electrodes, the active layer comprising amorphous silicon;

wherein the article is configured as a photovoltaic cell.